

**SECRET**

ILLEGIB

1970 JAN 8 17 22Z

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SECRET CITE NPIC 7743.

SAC FOR DIRI, DOSR, DISD, DM4C, DPLC; 100 SRW DAVIS MONTHAN AFB FOR DO, DCOI, DCM, AEMS; 12 SAD FOR MD; DIA FOR DIAXX-1; HQ USAF FOR AFIGOS, AFXOTR; 15TH AF FOR DI, DO, DM4C.

SUBJECT: EVALUATION OF OLD MEAD MISSION C-111

1. IMAGE QUALITY: THE OVERALL IMAGE QUALITY OF THIS MISSION RANGES FROM POOR TO FAIR. THE DEGRADING FACTORS ARE VEHICLE VIBRATIONS AND A V/H FAILURE (SEE PARA 3C) WHICH RESULTED IN THE LACK OF SHARP EDGE DEFINITION AND CAUSED SMEARED IMAGERY IN THE FLIGHT DIRECTION. THE INTERPRETATION SUITABILITY RANGES FROM POOR TO GOOD. CLOUD COVER AFFECTS APPROXIMATELY 25 PERCENT OF THE ENTIRE MISSION.

## 2. MISSION DATA:

- A. G-111, 4 JANUARY 1970
- B. I-2, 5311
- C. A/C NO: 339
- D. STEREO
- E. T/O: 1210Z, C/ON: 1432Z
- F. 3434, W-23A
- G. MX-819-1, NRTSC
- H. AVG GAMMA: 1.57
- I. SLIT WIDTH - 0.080

3. A. EXPOSURE: ADEQUATE FOR INTERPRETATION, ALTHOUGH SLIGHTLY UNDEREXPOSED IN THE BEGINNING OF THE MISSION.

B. DENSITY AND CONTRAST: GENERALLY MEDIUM.

C. IMAGED DEGRADATIONS: A MAJOR PORTION OF THE MISSION MATERIAL DISPLAYS SMEARED IMAGERY IN THE FLIGHT DIRECTION DUE TO IMPROPER SMC WHICH RESULTED FROM AN ERRONEOUS V/H SIGNAL. THE V/H SIGNAL FLUCTUATED FROM 8.5 MRADS (NORMAL) TO 15 PLUS MRADS FOR THE FWD LOOKING FRAMES AND FROM 8.5 MRADS TO 11.5 MRADS FOR THE AFT LOOKING FRAMES. A V-SHAPED FOG PATTERN, A FISHHOOK-SHAPED FOG PATTERN, AND A BAND OF FOG FROM THE SLIT ARE PRESENT ON THE MISSION MATERIAL. THESE LIGHT LEAK INDUCED PATTERNS ARE DESCRIBED IN THE EVALUATION OF G-107 (NPIC 7520). SEVERAL MINUSDENSITY LINES, PARALLEL TO THE MAJOR AXIS, ARE PRESENT THROUGHOUT THE MISSION. HEAVY FOG PATTERNS ARE PRESENT ON FRAMES 462, 1092, 1130, 1146, AND 1422. THESE APPEAR TO BE SLIT IMAGES AND ARE LOCATED 23 INCHES FROM THE SUPPLY END OF THE FORMAT. THE ABOVE MENTIONED FOG PATTERNS ARE SEVERE ENOUGH TO DEGRADE THE ASSOCIATED TERRAIN IMAGERY SO THAT A SIGNIFICANT DEGRADATION TO INTERPRETABILITY IS NOTED.

D. PHYSICAL DEGRADATIONS: FINE EMULSION SCRATCHES ARE NOTED THROUGHOUT THE MATERIAL. TWO HEAT SPLICES AND ONE ULTRA-SONIC SPLICE ARE PRESENT ON THIS MISSION.

E. DATA RECORDING EQUIPMENT: ALL RECORDING EQUIPMENT FUNCTIONED PROPERLY THROUGHOUT THE MISSION.

F. OTHER: THE V/H FAILURE ALSO CAUSED AN INCREASE IN OVERLAP FROM 17 PERCENT TO APPROXIMATELY 25 PERCENT. THE LAST TITLED FRAME IS 1425. THE LAST COUNTER NUMBER IS 1432. THIS PLUS 5 BIAS WAS HELD THROUGHOUT THE MISSION.

4. POSITIVES: THE PRINTING AND PROCESSING ARE GOOD.

SECRET

END OF MESSAGE

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